IPLOCA

Novel Construction Spring Session 2024

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Innovative Methods in Asset Tracking & Surveying

April 2024

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Meet the Digital Construction Site

Leveraging the potential of data to augment human decision-making capabilities.

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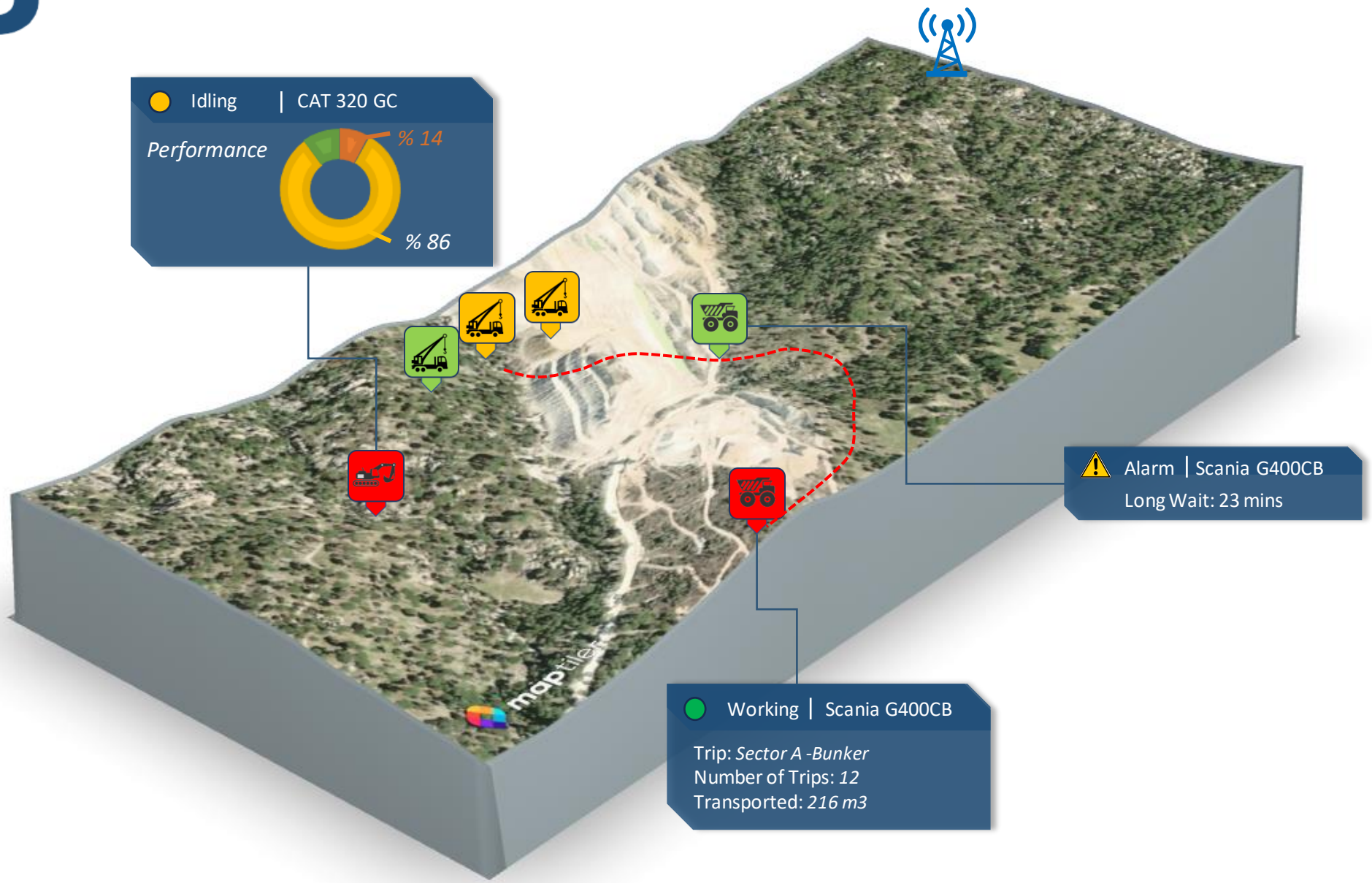
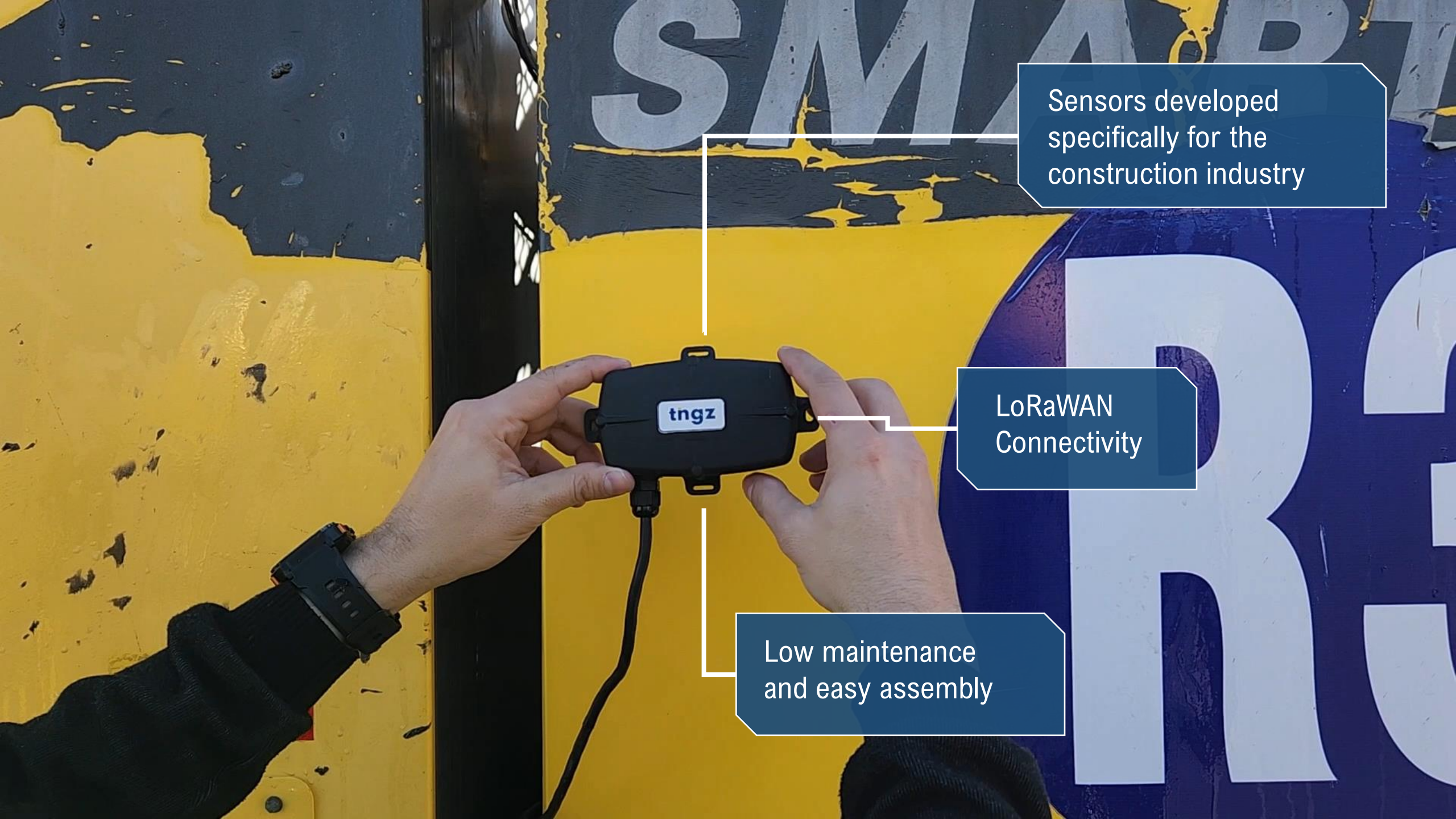

Idling | CAT 320 GC
Performance
% 14
% 86
Alarm | Scania G400CB
Long Wait: 23 mins
Working | Scania G400CB
Trip: Sector A -Bunker
Number of Trips: 12
Transported: 216 m3


Sensors developed specifically for the construction industry
LoRaWAN Connectivity
Low maintenance and easy assembly
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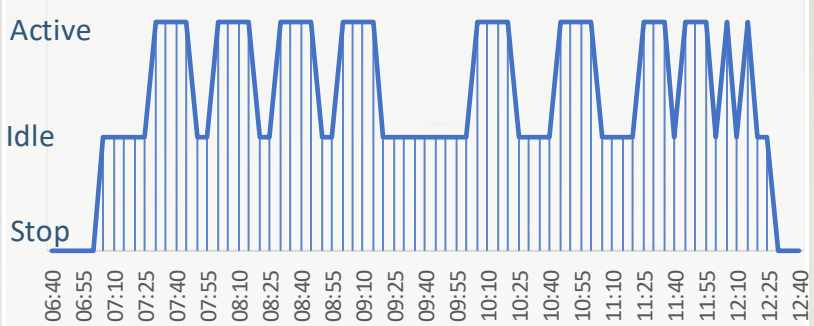
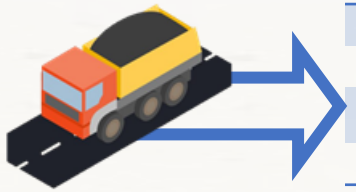
Activity analysis module

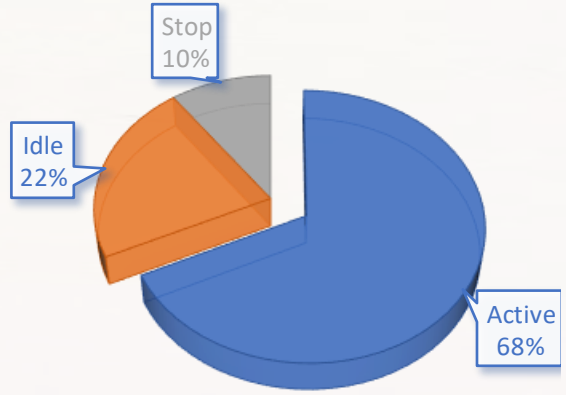
Specific algorithms for construction machines

Real-Time Activity Analysis





Transported Volume	179 m3
Alarms	High Speed - 73km/h
Number of Trips	9
Workshop Visits	09:32 - 11:22
Total working hours	270 mins



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Customer Use Case:
Open Lignite Mine Project

Increase in Total Production

%6

+16.433 trips/month

Monthly Fuel Savings

27,371 liters

Reduced Monthly Emissions

80 tons CO2e


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Smart Sensors
Pressure, Flow Rate, Humidty
Idle | Welding Equipment
Total Working Hours: 3h 12mins
Alarm | Pick Up Truck
Risky Driving
Working | PL 61
Active
Idle
Stop
Personnel | #10900
Stringing Area.
Total Working Hours: 4h 12mins

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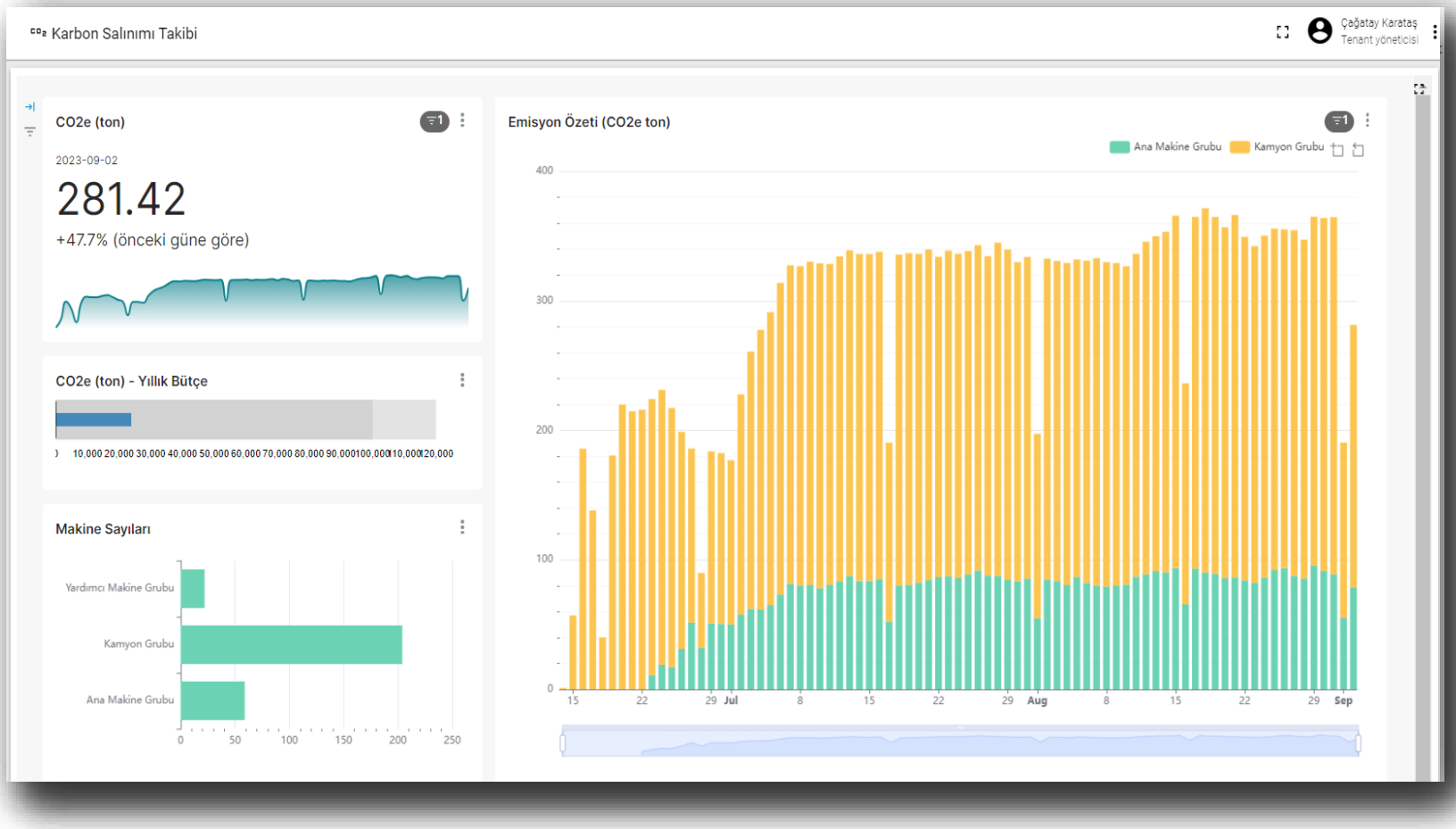
- Detailed activity analysis for each machine
- Machine interactions and utilization
- Total activity & work hour reporting
- Productivty and progress tracking
- Establishing baseline data, sustainability reports and metrics for ESG



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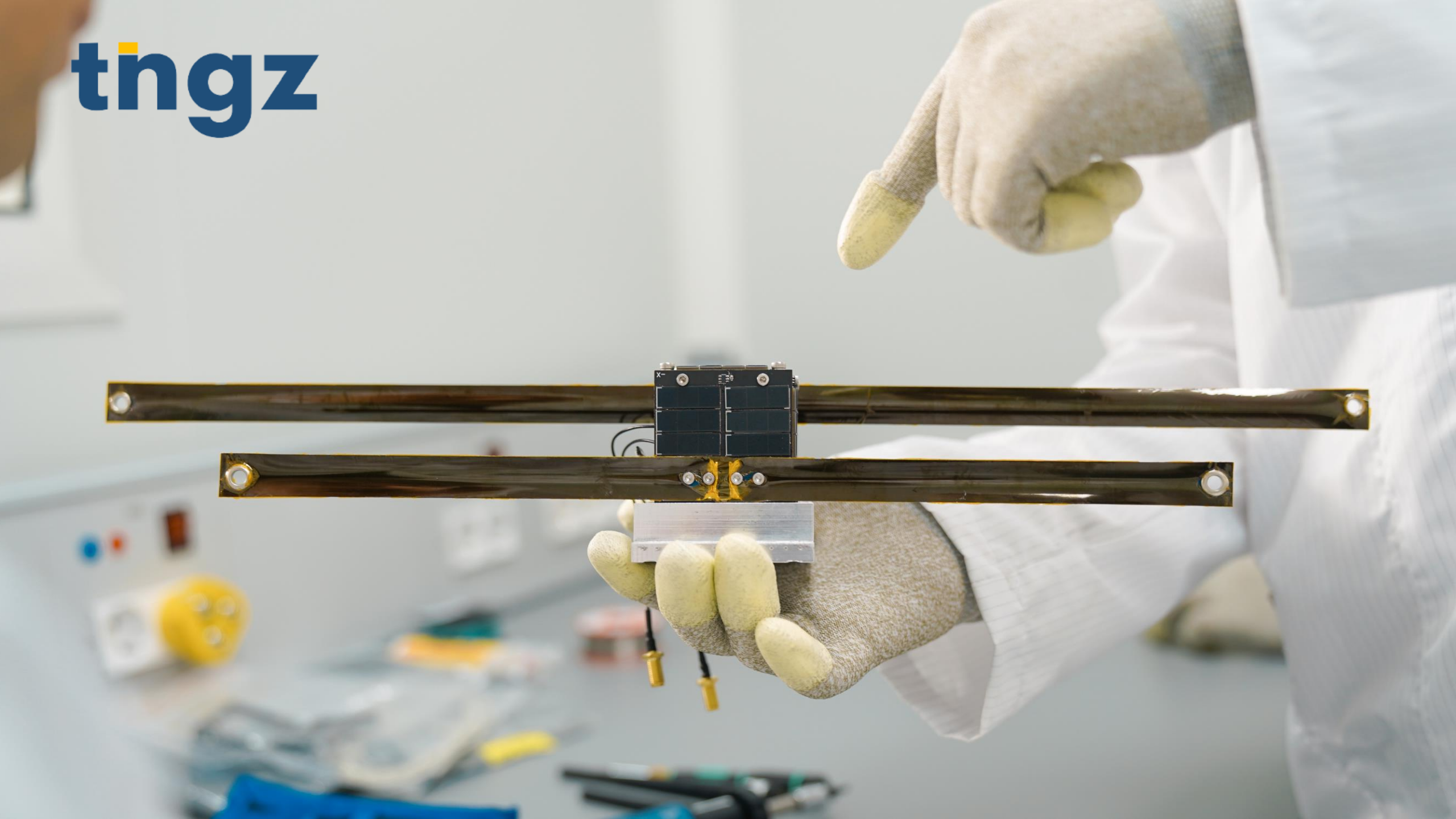
- Equipment tracking
- Personnel tracking
- Standardasing machine data
- Drone integration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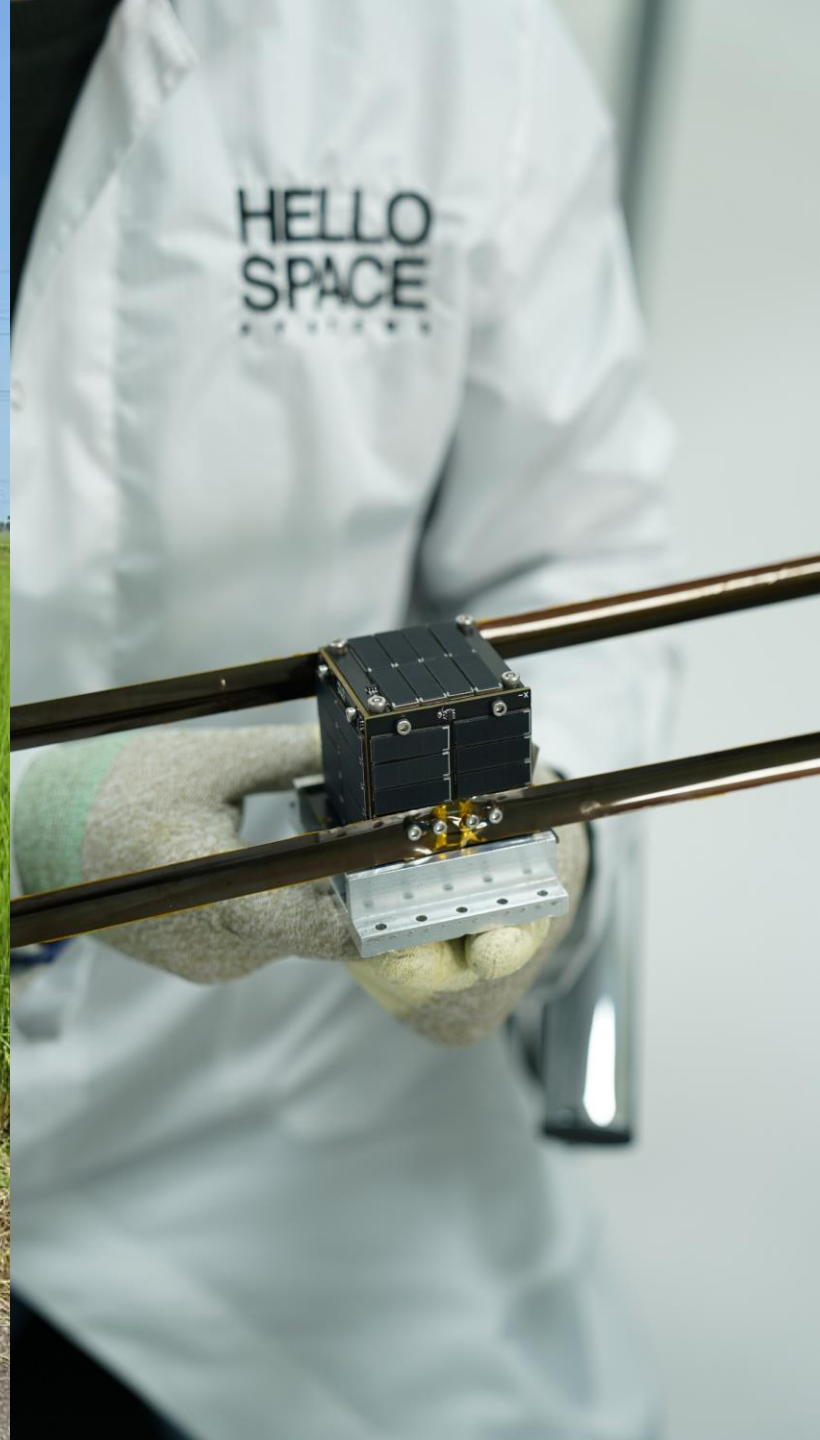

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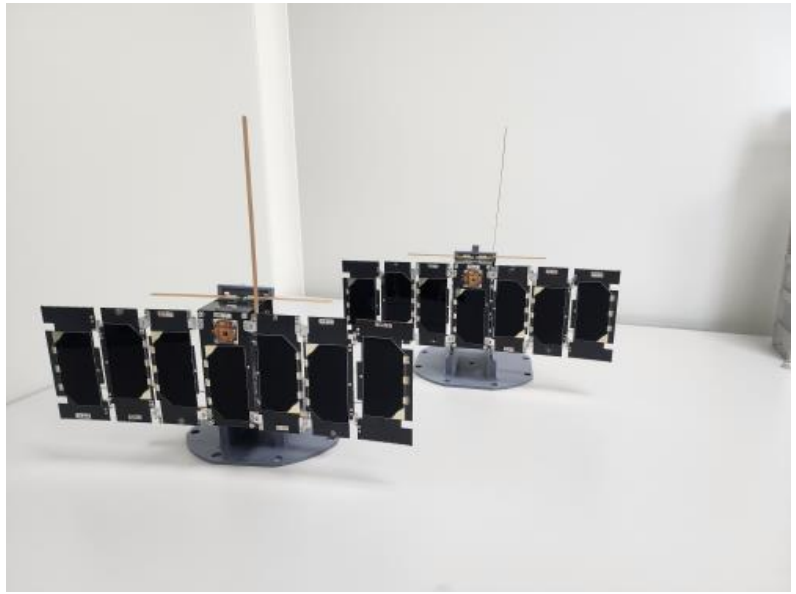
HELLO SPACE



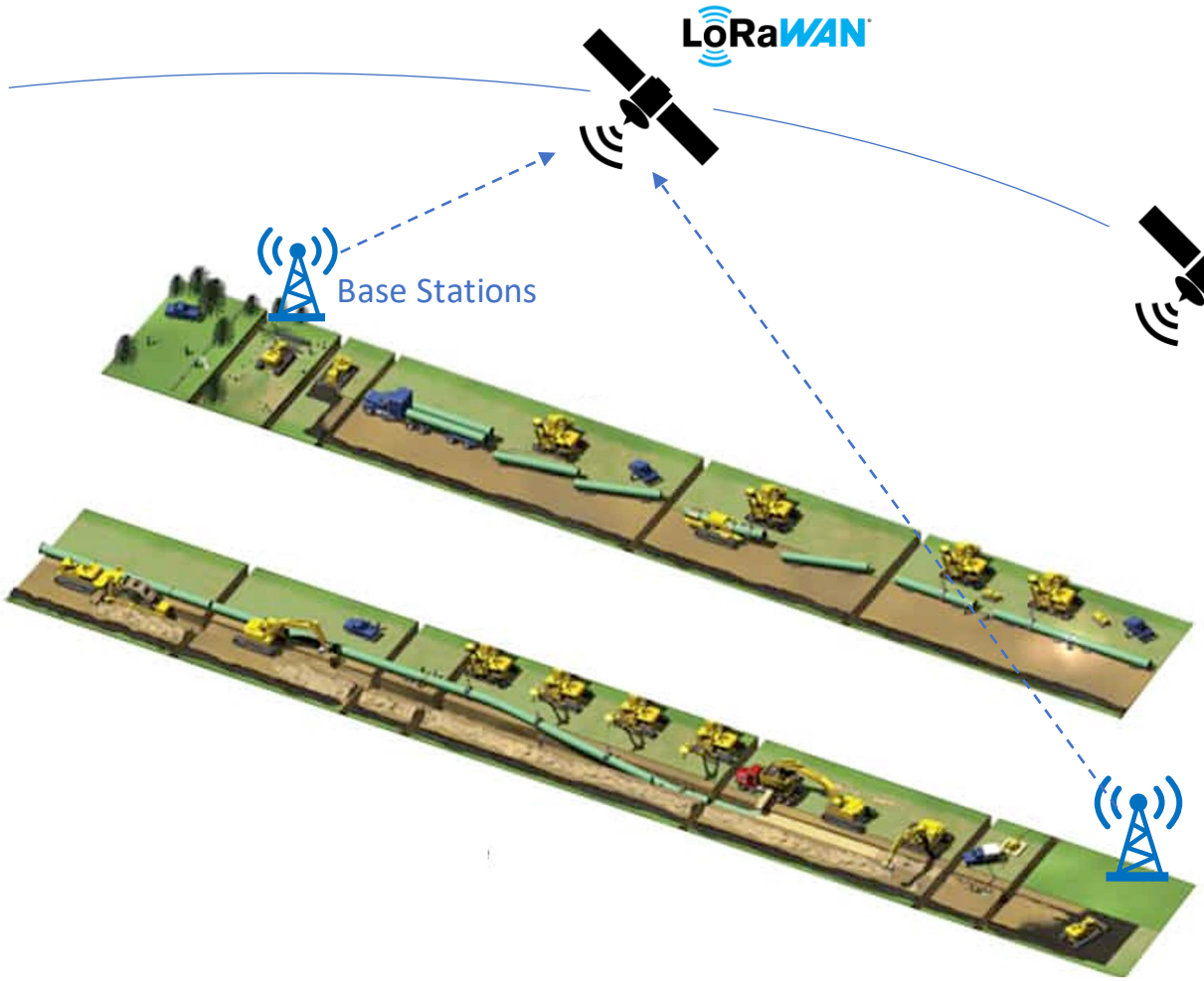
HELLO for IoT

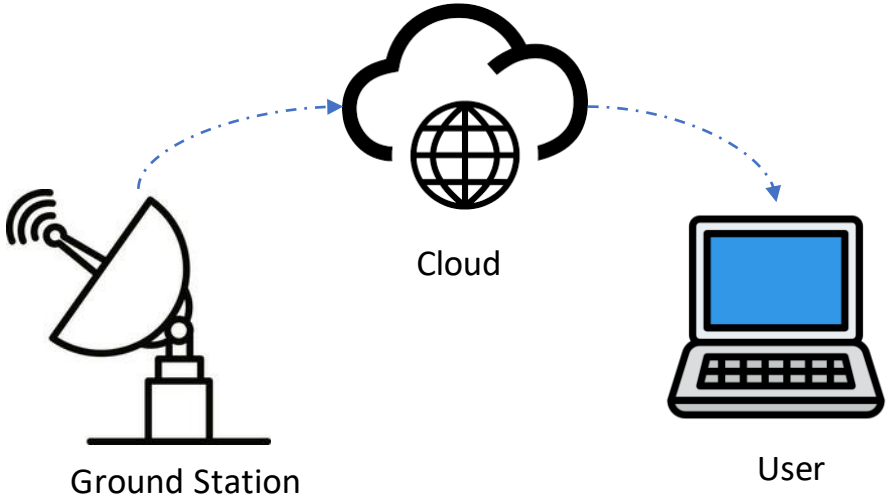
HELLO SPACE

LoRaWAN FOR SATELLITE
A connected tour around the globe

Building collection and control systems in remote areas where no traditional connectivity plan and infrastructure exists is very limited.

With LoRaWAN & Satellite technology we are able to capture data of challenging activities





tngz Experience

Dam Projects

<u>Underground Mines</u>

Open Mines

Urban Projects

THANK YOU

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